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TABLE 1A

Gene No.	cDNA Clone ID	ATCC Deposit No. Z and Date	Vector	NT SEQ ID NO: X	Total NT Seq.	5' NT of Clone Seq.	3' NT of Clone Seq.	5' NT of Start Codon	5' NT of First AA of Signal Pep	AA SEQ ID NO: Y	First AA of Sig Pep	Last AA of Sig Pep	First AA of Secreted Portion	Last AA of ORF
1	H2CBD20	203917 04/08/99	pBluescript SK-	11	1256	1	1256		27	2608	1			17
2	H2CBH91	203917 04/08/99	pBluescript SK-	12	1760	225	1760	309	309	2609	1	36	37	40
3	H2LBA54	203917 04/08/99	pBluescript SK-	13	1529	1	1529	386	386	2610	1			5
4	H2LBB09	203917 04/08/99	pBluescript SK-	14	2114	1	2114	197	197	2611	1	17	18	36
5	H2LBB09	203917 04/08/99	pBluescript SK-	15	2158	109	2158	236	236	2612	1	17	18	36
6	H2MAC63	203917 04/08/99	pBluescript SK-	16	443	1	443	172	172	2613	1	23	24	32
7	H2MBA76	203917 04/08/99	pBluescript SK-	17	1315	482	1302	717	717	2614	1	20	21	112
8	H2MBF60	203917 04/08/99	pBluescript SK-	18	1174	1	1174	320	320	2615	1	25	26	40

TABLE 1B

Gene No:	Clone ID NO: Z	Contig ID:	SEQ ID NO: X	ORF (From-To)	AA SEQ ID NO: Y	Predicted Epitopes	Tissue Distribution Library code: count (see Table 4 for Library Codes)	Cytologic Band	OMIM Disease Reference(s):
1	H2CBD20	570796	11	27 - 80	2608	Gln-1 to Asp-6.	T0110: 1 and L0776: 1.		
2	H2CBH91	826669	12	309 - 431	2609	Met-1 to Lys-12.	AR089: 3, AR316: 3, AR060: 3 L0764: 3, L0746: 2, L0749: 2, L0777: 2, S0114: 1, H0661: 1, H0497: 1, H0036: 1, T0110: 1, H0412: 1, L0520: 1, L0631: 1, L0796: 1, L0373: 1, L0766: 1, L0806: 1, L0776: 1, L0789: 1, L0666: 1, L0742: 1, L0745: 1, L0731: 1, L0485: 1 and L0608: 1.	8p22-q21.2	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629
3	H2LBA54	684290	13	386 - 403	2610		L0766: 5, L0439: 5, L0803: 4, L0666: 4, H0556: 3, S0360: 3, H0591: 3, L0809: 3, L0754: 3, L0750: 3, L0777: 3, H0392: 2, H0553: 2, L0771: 2, L0662: 2, L0794: 2, L0806: 2, L0748: 2, L0749: 2, L0779: 2, L0759: 2, H0707: 2, S0026: 2, H0171: 1, H0450: 1, H0125: 1, S0376: 1, H0637: 1, H0580: 1, S0045: 1, S0222: 1, H0431: 1, H0497: 1, H0333: 1, H0013: 1, H0635: 1, H0599: 1, H0581: 1, T0115: 1, L0471: 1, H0051: 1, S0022: 1, L0142: 1, H0674: 1, H0038: 1, H0634: 1, H0616: 1, S0386: 1, H0625: 1, H0646: 1, L0804: 1, L0774: 1, L0805: 1, L0655: 1, L0559: 1, L0526: 1, L0790: 1, L0663: 1, H0519: 1, H0593: 1.	6q21	120110, 121014, 601666, 602772

TABLE 1C

Clone ID No:Z	SEQ ID NO:X	CONTIG ID:	BAC ID: A	SEQ ID NO:B	EXON From-To
H2CBH91	12	826669	AF260012	5205	1-624 4141-4362 4976-5265 5433-5573 5783-5890 6096-6635 7710-8129 8177-10172
H2CBH91	12	826669	AF260012	5206	1-449 512-986
H2CBH91	12	826669	AF260012	5207	1-80 527-631 1970-2099 2509-2582 2740-2802 3491-3728 3976-4184 4306-4978 5841-6002 7317-8173
H2LBB09	14	658667	AC015863	5208	1-103 2561-2824 4532-4708 5840-7609
H2LBB09	15	830636	AC015863	5209	1-103 2561-2824 4532-4708 5840-7609
H2MAC63	16	610045	AC019122	5210	1-63 390-1660 3921-3948
H2MAC63	16	610045	AC019122	5211	1-331
H2MAC63	16	610045	AC019122	5212	1-450 539-708 713-835
H2MBA76	17	826161	AP001822	5213	1-69 608-1096 1251-2446
H2MBA76	17	826161	AC020997	5214	1-201 1064-1126 1665-2153 2308-3502
H2MBA76	17	826161	AP001822	5215	1-71 929-1051 1659-1798
H2MBA76	17	826161	AC020997	5216	1-1329
H2MBA76	17	826161	AC020997	5217	1-71 930-1052 1660-1799
H2MBF60	18	695714	AC015470	5218	1-470 850-1865
H2MBF60	18	695714	AC015470	5219	1-244
H6BSM88	19	609832	AL355520	5220	1-39

TABLE 1D

Gene No.	Clone ID	Preferred Indication
1	H2CBD20	Digestive
2	H2CBH91	Cancer
3	H2LBA54	Cancer
4	H2LBB09	Cancer
5	H2LBB09	Cancer
6	H2MAC63	Digestive, Reproductive
7	H2MBA76	Cancer
8	H2MBF60	Cancer
9	H6BSM88	Cancer
10	H6EEA48	Cancer
11	H6EEN71	Cancer
12	H6EEO05	Cancer
13	H6EEU40	Cancer
14	H7TDB54	Cancer
15	H7TMB95	Cancer
16	HAAAT06	Cancer
17	HACAD42	Connective/Epithelial, Mixed Fetal, Neural/Sensory
18	HACBJ11	Cancer
19	HACBS86	Cancer
20	HACBT91	Cancer
21	HACBZ73	Cancer
22	HACCK29	Connective/Epithelial
23	HADAB60	Cancer
24	HADAM31	Connective/Epithelial
25	HADCL19	Connective/Epithelial
26	HADCZ65	Connective/Epithelial, Immune/Hematopoietic
27	HADDC04	Connective/Epithelial, Reproductive
28	HADDP23	Cancer
29	HADDP51	Cancer
30	HADDR24	Cancer
31	HADET62	Connective/Epithelial
32	HADEY08	Cancer
33	HADEY22	Connective/Epithelial
34	HADEY22	Connective/Epithelial
35	HADFB84	Cancer
36	HADFD01	Cancer

TABLE 2

Clone ID No:Z	Contig ID:	SEQ ID NO:X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/Percent Identity	NT From	NT To
H2CBD20	570796	11	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q14288 Q14288	58% 52%	758 987	988 1244
H2CBH91	826669	12	blastx.2	CDNA FLJ20357 FIS, CLONE HEP16545.	sp Q9NXA3 Q9NXA3	99% 100% 78% 63% 37% 34% 31% 45% 45%	182 3 603 133 380 197 392 260 693	643 125 758 222 643 352 583 322 758
H2LBA54	684290	13	blastx.2	APOPTOSIS SPECIFIC PROTEIN (DJ134E15.2) (APOPTOSIS SPECIFIC PROTEIN).	sp O60875 O60875	100%	172	996
H2LBB09	658667	14	blastx.2	HSPC210.	sp Q9P0R6 Q9P0R6	97% 95%	73 465	477 536
H2LBB09	830636	15	blastx.2	HSPC210.	sp Q9P0R6 Q9P0R6	97% 100%	112 504	516 575
H2MBF60	695714	18	blastx.2	transcription factor TFIID 32K chain TAFII32 - human	pir I39141 I39141	100%	163	954
H6EEA48	847111	20	blastx.2	54TMP.	sp O95070 O95070	57% 53%	478 24	933 482
H6EEN71	829201	21	blastx.2	PEROXISOME ASSEMBLY PROTEIN PEX10 (PEROXIN-10).	sp O60683 PEXA_HUMAN	100%	1943	1779
H6EEO05	865424	22	HMMER 2.1.1	PFAM: EF hand	PF00036	25	328	414

TABLE 3

Clone ID NO: Z	SEQ ID NO: X	Contig ID:	EST Disclaimer		Accession #'s
			Range of a	Range of b	
H2CBD20	11	570796	1 - 1242	15 - 1256	AA307235, AI002535, and AL110292.
H2CBH91	12	826669	1 - 1746	15 - 1760	AW513036, AA987293, AA514234, AA527326, AI042506, AA307523, BF434189, AW027392, AI830125, AI082564, BE465081, BE930938, AW137220, BE207383, AA595583, AW592017, AW149821, AI080114, AW407521, AA515071, AW954673, BF978370, AW972013, AI702884, AA699914, BF308679, AA664812, AA057192, H30341, AA810167, BE298153, H19982, BE934692, AA010016, H30276, Z28643, W96528, BF746707, AA916894, AI565193, BE694224, BF025844, BE409534, BE091031, W96424, AA057126, AA629693, BE302462, AK000364, AF260012, AF260012, and AF260012.
H2LBA54	13	684290	1 - 1515	15 - 1529	AL533221, AU118215, AW967448, BE858694, W05793, BE881068, BE785689, AV722687, AW511394, AW854145, AU127733, BF679080, AI831755, AW162644, AW854285, AW299694, BG259735, AU136457, AI929569, AA316000, AI815769, BG024726, BE091033, BG027272, AI990740, AW854276, BF765904, BE379291, AI908478, C18225, AW161087, AA773846, AI653140, AU126756, BE090921, AI814482, AI654046, AW466987, AU144842, BF939610, BF060669, AI582346, AI434826, AI924047, AW295587, AW439794, AU156733, BF001735, AI804186, AW673465, AW006893, R75961, AI420472, AA251276, AI561045, AA804539, BF003083, AU150205, AW675786, AI017430, AI278043, BE087891, AI815392, AW362310, AI275554, AA237041, AW139772, AW006914, AW194004, AI248944, AI921939, AI160403, AW519320, AI246300, AI802110, AI954701, R39810, AW971515, N95381, AI695795, AI016984, AA629602, BF037404, R14042, R24731, R24431, AA808210, AW516604, AW177131, AW362546, T98372, AI203144, AI420225, AI242952, BE778569, AA321616, AA441948, AA247315, BF807374, R45462, BE931172, AW768315, T63304, BE547877, AW993858, T63056, AW134916, R24432, T98373, AA329617, N75057, AA886625, Y11588, AK001899, AL022067, AL138917, AL133509, and AX008043.
H2LBB09	14	658667	1 - 2100	15 - 2114	AW967455, BF792989, BE897386, BE897270, BE896034, BG110036, BE644929,

TABLE 4

Code	Description	Tissue	Organ	Cell Line	Disease	Vector
AR022	a_Heart	a_Heart				
AR023	a_Liver	a_Liver				
AR024	a_mammary gland	a_mammary gland				
AR025	a_Prostate	a_Prostate				
AR026	a_small intestine	a_small intestine				
AR027	a_Stomach	a_Stomach				
AR028	Blood B cells	Blood B cells				
AR029	Blood B cells activated	Blood B cells activated				
AR030	Blood B cells resting	Blood B cells resting				
AR031	Blood T cells activated	Blood T cells activated				
AR032	Blood T cells resting	Blood T cells resting				
AR033	brain	brain				
AR034	breast	breast				
AR035	breast cancer	breast cancer				
AR036	Cell Line CAOV3	Cell Line CAOV3				
AR037	cell line PA-1	cell line PA-1				
AR038	cell line transformed	cell line transformed				
AR039	colon	colon				
AR040	colon (9808co65R)	colon (9808co65R)				
AR041	colon (9809co15)	colon (9809co15)				
AR042	colon cancer	colon cancer				
AR043	colon cancer (9808co64R)	colon cancer (9808co64R)				
AR044	colon cancer 9809co14	colon cancer 9809co14				
AR045	corn clone 5	corn clone 5				
AR046	corn clone 6	corn clone 6				
AR047	corn clone2	corn clone2				
AR048	corn clone3	corn clone3				
AR049	Corn Clone4	Corn Clone4				
AR050	Donor II B Cells 24hrs	Donor II B Cells 24hrs				
AR051	Donor II B Cells 72hrs	Donor II B Cells 72hrs				
AR052	Donor II B-Cells 24 hrs.	Donor II B-Cells 24 hrs.				
AR053	Donor II B-Cells 72hrs	Donor II B-Cells 72hrs				
AR054	Donor II Resting B Cells	Donor II Resting B Cells				
AR055	Heart	Heart				
AR056	Human Lung (clonotech)	Human Lung (clonotech)				
AR057	Human Mammary (clonotech)	Human Mammary (clonotech)				
AR058	Human Thymus (clonotech)	Human Thymus (clonotech)				
AR059	Jurkat (unstimulated)	Jurkat (unstimulated)				
AR060	Kidney	Kidney				
AR061	Liver	Liver				

TABLE 5

OMIM Reference	Description
100678	ACAT2 deficiency
100690	Myasthenic syndrome, slow-channel congenital, 601462
100730	Myasthenia gravis, neonatal transient
101000	Meningioma, NF2-related, sporadic Schwannoma, sporadic
101000	Neurofibromatosis, type 2
101000	Neurolemmomatosis
101000	Malignant mesothelioma, sporadic
102200	Somatotrophinoma
102480	Male infertility due to acrosin deficiency
102540	Cardiomyopathy, idiopathic dilated
102578	Leukemia, acute promyelocytic, PML/RARA type
102700	Severe combined immunodeficiency due to ADA deficiency
102700	Hemolytic anemia due to ADA excess
102770	Myoadenylate deaminase deficiency
102772	[AMP deaminase deficiency, erythrocytic]
103000	Hemolytic anemia due to adenylate kinase deficiency
103050	Autism, succinylpurinemic
103050	Adenylosuccinase deficiency
103581	Albright hereditary osteodystrophy-2
103600	[Dysalbuminemic hyperthyroxinemia]
103600	[Dysalbuminemic hyperzincemia], 194470
103600	Analbuminemia
103720	Alcoholism, susceptibility to
103850	Aldolase A deficiency
103950	Emphysema due to alpha-2-macroglobulin deficiency
104150	[AFP deficiency, congenital]
104150	[Hereditary persistence of alpha-fetoprotein]
104170	NAGA deficiency, mild
104170	Schindler disease
104170	Kanzaki disease
104311	Alzheimer disease-3
104500	Amelogenesis imperfecta-2, hypoplastic local type
104770	Amyloidosis, secondary, susceptibility to
105580	Anal canal carcinoma
105600	Dyserythropoietic anemia, congenital, type III
106100	Angioedema, hereditary
106150	Hypertension, essential, susceptibility to
106150	Preeclampsia, susceptibility to
106165	Hypertension, essential, 145500
106210	Peters anomaly
106210	Cataract, congenital, with late-onset corneal dystrophy

Table 6

ATCC Deposits	Deposit Date	ATCC Designation Number
LP01, LP02, LP03, LP04, LP05, LP06, LP07, LP08, LP09, LP10, LP11,	May-20-97	209059, 209060, 209061, 209062, 209063, 209064, 209065, 209066, 209067, 209068, 209069
LP12	Jan-12-98	209579
LP13	Jan-12-98	209578
LP14	Jul-16-98	203067
LP15	Jul-16-98	203068
LP16	Feb-1-99	203609
LP17	Feb-1-99	203610
LP20	Nov-17-98	203485
LP21	Jun-18-99	PTA-252
LP22	Jun-18-99	PTA-253
LP23	Dec-22-99	PTA-1081

TABLE 7

Libraries owned by Catalog	Catalog Description	Vector	ATCC Deposit
HUKA HUKB HUKC HUKD HUKF HUKG	Human Uterine Cancer	Lambda ZAP II	LP01
HCNA HCNB	Human Colon	Lambda Zap II	LP01
HFFA	Human Fetal Brain, random primed	Lambda Zap II	LP01
HTWA	Resting T-Cell	Lambda ZAP II	LP01
HBQA	Early Stage Human Brain, random primed	Lambda ZAP II	LP01
HLMB HLMF HLMG HLMH HLMI HLMJ HLMM HLMN	breast lymph node CDNA library	Lambda ZAP II	LP01
HCQA HCQB	human colon cancer	Lambda ZAP II	LP01
HMEA HMEC HMED HMEF HMEG HMEI HMEJ HMEK HMEI	Human Microvascular Endothelial Cells, fract. A	Lambda ZAP II	LP01
HUSA HUSC	Human Umbilical Vein Endothelial Cells, fract. A	Lambda ZAP II	LP01
HLQA HLQB	Hepatocellular Tumor	Lambda ZAP II	LP01
HHGA HHGB HHGC HHGD	Hemangiopericytoma	Lambda ZAP II	LP01
HSDM	Human Striatum Depression, re-rescue	Lambda ZAP II	LP01
HUSH	H Umbilical Vein Endothelial Cells, frac A, re-excision	Lambda ZAP II	LP01
HSGS	Salivary gland, subtracted	Lambda ZAP II	LP01
HFXA HFXB HFXC HFXD HFXE HFXF HFXG HFXH	Brain frontal cortex	Lambda ZAP II	LP01
HPQA HPQB HPQC	PERM TF274	Lambda ZAP II	LP01
HFXJ HFXK	Brain Frontal Cortex, re-excision	Lambda ZAP II	LP01
HCWA HCWB HCWC HCWD HCWE HCWF HCWG HCWH HCWI HCWJ HCWK	CD34 positive cells (Cord Blood)	ZAP Express	LP02
HCUA HCUB HCUC	CD34 depleted Buffy Coat (Cord Blood)	ZAP Express	LP02
HRSM	A-14 cell line	ZAP Express	LP02
HRSA	A1-CELL LINE	ZAP Express	LP02
HCUD HCUE HCUF HCUG HCUH HCUJ	CD34 depleted Buffy Coat (Cord Blood), re-excision	ZAP Express	LP02
HBXE HBXF HBXG	H. Whole Brain #2, re-excision	ZAP Express	LP02
HRLM	L8 cell line	ZAP Express	LP02